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(54) Turbogenerator/motor control system

(57) A turbogenerator/motor controller with a micro-processor based inverter having multiple modes of operation with an energy storage and discharge system including an ancillary electric storage device, such as a battery, connected to the generator controller through control electronics. Electrical energy can flow from the ancillary electric storage device to the turbogenerator controller during start up and increasing load and vice versa during self-sustained operation of the turbogenerator. When utility power is unavailable, the ancillary electric storage device can provide the power required to start the turbogenerator. When a load transient occurs, the gas turbine engine and the ancillary electric storage device provide the power required to successfully meet the transient.

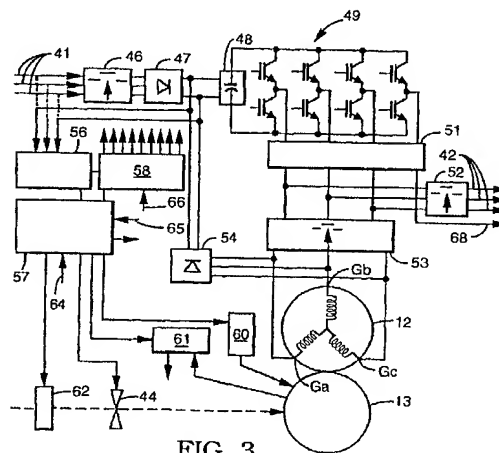


FIG. 3

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EUROPEAN SEARCH REPORT

Application Number
EP 99 30 3642

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
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A	PATENT ABSTRACTS OF JAPAN vol. 004, no. 167 (M-042), 19 November 1980 (1980-11-19) & JP 55 114851 A (HITACHI LTD), 4 September 1980 (1980-09-04) * abstract *	1-4	
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			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			H02P F02C
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 26 June 2000	Examiner Beyer, F
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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